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Gunter

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TITLE OF THE INVENTION

RELUCTANCE MOTOR WITH AT LEAST TWO SALIENT POLES
EACH PROVIDED WITH AN EXCITER WINDING, AND METHOD
FOR MANUFACTURING THE STATOR OF SUCH RELUCTANCE MOTOR

5 BACKGROUND AND SUMMARY OF THE INVENTION

This application claims the priority of German Application 19914943.7, filed April 1, 1999, the disclosure of which is expressly incorporated by reference herein.

10 The invention relates to a reluctance motor with at least two salient stator poles each provided with an exciter winding, and to a method for the manufacture of the stator of such a reluctance motor.

15 Switching reluctance motors usually have numerous salient poles both in the stator and in the rotor. Each motor phase has at least one pair of stator poles lying diametrically opposite one another. An exciter winding is disposed on each stator pole. The two exciter windings on the stator poles are connected in series or in parallel. The stator and rotor poles consist of laminated sheet iron. When an exciter current is fed into the
20 exciter windings, the stator poles are magnetized, so that magnetic attraction forces are exercised on the rotor, to thereby cause rotation.